



# CINT2000 Result

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**Supermicro**  
X6DVL-EG (3.60 GHz Xeon, 1MB L2 Cache)

SPECint\_rate2000 = 30.8  
SPECint\_rate\_base2000 = 28.7

SPEC license #01176 | Tested by: Supermicro Inc., San Jose, CA | Test date: Sep-2004 | Hardware Avail: Aug-2004 | Software Avail: Dec-2003

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip    | 2           | 123          | 26.5       | 2      | 123     | 26.4  |
| 175.vpr     | 2           | 165          | 19.7       | 2      | 165     | 19.7  |
| 176.gcc     | 2           | 68.1         | 37.5       | 2      | 68.1    | 37.5  |
| 181.mcf     | 2           | 242          | 17.2       | 2      | 243     | 17.2  |
| 186.crafy   | 2           | 83.3         | 27.8       | 2      | 81.8    | 28.4  |
| 197.parser  | 2           | 148          | 28.2       | 2      | 148     | 28.2  |
| 252.eon     | 2           | 77.7         | 38.8       | 2      | 67.2    | 44.9  |
| 253.perlbnk | 2           | 118          | 35.3       | 2      | 104     | 40.1  |
| 254.gap     | 2           | 71.1         | 35.9       | 2      | 71.1    | 35.9  |
| 255.vortex  | 2           | 90.5         | 48.7       | 2      | 90.5    | 48.7  |
| 256.bzip2   | 2           | 180          | 19.4       | 2      | 155     | 22.5  |
| 300.twolf   | 2           | 273          | 25.5       | 2      | 184     | 37.8  |

### Hardware

CPU: Intel Xeon (3.6GHz, 800 MHz system bus)  
CPU MHz: 3600  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (HT Technology enabled)  
CPU(s) orderable: 1, 2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4 x 1024MB ECC CL2.5 PC 2700 DDR SDRAM  
Disk Subsystem: 1 x 40GB Seagate IDE  
Other Hardware:

### Software

Operating System: Windows 2003 Enterprise Server  
Compiler: Intel C/C++ Compiler 8.0 (20031229Z)  
Microsoft Visual Studio .NET (7.0.9466)  
MicroQuill SmartHeap Library 7.1  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### PORTABILITY FLAGS

176.gcc: -Dalloca=\_alloca /F10000000  
186.crafy: -DNT\_i386  
253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=yes  
FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

### BASE TUNING

C: -QxN -Qipo -O3 +FDO  
C++: -QxN -Qipo -GX -GR

### PEAK TUNING

164.gzip: -QxN -Qipo -O3 -Oa +FDO  
175.vpr: basepeak=yes  
176.gcc: basepeak=yes  
181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib  
186.crafy: -QxN -Qipo -O3 -Oa +FDO shlw32M.lib  
197.parser: basepeak=yes  
252.eon: -QxN -Qipo -O3 +FDO  
253.perlbnk: -QxN -Qipo -O3 +FDO shlw32M.lib



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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    basepeak=yes
256.bzip2:    -Qipo      -Oa -Qunroll1 +FDO shlw32M.lib
300.twolf:    -QxN -Qipo -O3      +FDO shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib:  MicroQuill SmartHeap Library 7.1
              www.microquill.com
```